used in the National Health Programmes; and

(b) if so, what are the details thereof and the date from which the proposal is likely to be implemented?

THE MINISTER OF STATE IN THE DEPARTMENT OF CHEMICALS AND PETRO-CHEMICALS IN THE MINISTRY OF INDUSTRY (SHRI R. K. JAICHANDRA SINGH) : (a) No, Sir.

(b) Does not arise.

Combined Solar and wind Power Plant

895 SHRI PARVATHANENI UPENDRA Will the Minister of ENERGY be pleased to state :

(a) whether some experiments are being conducted with a combined solar and wind power plant to demonstrate the better utilisation of solar and wind energy, and

(b) if so, what are the details regarding the possibility of large-scale application of this technology to solve the power problems?

THE MINISTER OF ENERGY (SHRI VASANT SATHE) : (a) and (b) Yes, Sir. An experimental Solar photovoltaic (2 KW capacity), wind (4 KW capacity) hybrid power project is being implemented at Ramchandi village in Puri District of Orissa Another project for such a hybrid system has been sanctioned for installation at Bet Dwarka in Gujarat. The possibility of large scale application of such hybrid systems can be determined only after evaluation of such systems under different conditions

Cattle and other animal sources of energy

896 SHRI KAILASH PATI MISHRA : SHRI ATAL BIHARI VAJPAYEE :

Will the Minister of ENERGY be pleased to state :

(a) whether it is a fact that cattle and other animal sources make available about 66 per cent of the total energy utilised in India while that from coal and petroleum products is only about 14 per cent as reported in the Dairy India, 1987;

(b) if so, what are the details thereof and on what basis these figures have been arrived at; and

(c) what steps have been taken to encourage the better utilisation of the energy from animal sources?

THE MINISTER OF STATE IN THE DEPARTMENT OF POWER IN THE MINISTRY OF ENERGY (SHRIMATI SUSHILA ROHATGI) : (a) and (b) It is stated in the Dairy India, 1987 which is non-official publication that, "It is estimated that animal power accounts for 66 per cent of the total energy utilised in India as against only 14 per cent from other conventional sources such as coal" No authoritative source or basis has been cited for the above estimates.

(c) The measures taken to encourage a better utilisation of energy from animal sources include Research and Development and Survey and Demonstration Projects for which a total expenditure of Rs 1.17 crores has been sanctioned by Department of Non-Conventional Energy Sources. Improved carts and implements are being shown to farmers under the Demonstration programmes An outlay of Rs 2 crores has been ear-marked in the budget for 1987-88 for programmes for improvement in the utilisation of draught animal power

Jhakari and Larji Hydroelectric Projects

897 SHRI ANAND SHARMA : Will the Minister of ENERGY be pleased to state :

(a) whether it is a fact that the Government of Himachal Pradesh has submitted proposals for the Naathpa Jhakari and Larji, two major hydro-electric projects, to the Government of India and the same have been pending clearance for a long time, and

(b) if so, by when these projects are likely to be cleared and work started on them?

THE MINISTER OF STATE IN THE DEPARTMENT OF POWER IN THE